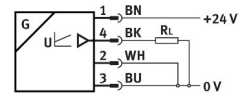


# Position transmitter SMAT-8M-U-E-0,3-M8D

Part number: 553744

**FESTO**



 General operating condition

## Data sheet

Feature	Value
Design	For T-slot
Symbol	00992260
Approval	RCM trademark c UL us listed (OL)
CE mark (see declaration of conformity)	To EU EMC Directive In accordance with EU RoHS Directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC To UK RoHS instructions
Certificate issuing authority	UL E232949
Note on materials	RoHS-compliant Free of halogen
Instructions on use	<a href="https://www.festo.com/Drive-Sensor-Overview">https://www.festo.com/Drive-Sensor-Overview</a>
Measured variable	Position
Measuring principle	Magnetic Hall
Sensing range	≤52000 μm
Ambient temperature	-40 °C ... 80 °C
Typical sampling interval	2 ms
Max. travel speed	3 m/s
Displacement resolution	≤0.02 mm
Repetition accuracy	0.2 mm
Analogue output	0 - 10 V
Typical linearity error	± 1 mm
Short circuit current rating	yes
Overload protection	Available
Output signal	Analogue
Operational voltage range DC	15 V ... 30 V
Residual ripple	10 %
No-load supply current	≤12 mA
Reverse polarity protection	For all electrical connections
Electrical connection 1, connection type	Cable with plug
Electrical connection 1, connector system	M8x1, A-coded, to EN 61076-2-104
Electrical connection 1, number of connections/cores	4
Electrical connection 1, type of mounting	Screw-type lock Rotatable
Electrical connection 1, compatible type of mounting	Compatible with rotatable/non-rotatable screw-type lock
Electrical connection 1, connection pattern	00991171
Connection outlet orientation	In-line

Feature	Value
Material electrical contact	Gold-plated copper alloy
Material screw-type lock	Nickel-plated brass
Test conditions cable	Bending strength: to Festo standard Torsional strength: > 300,000 cycles, $\pm 270^\circ/0.1$ m Energy chain: > 5 million cycles, bending radius 28 mm
Cable length	0.3 m
Cable characteristic	Suitable for energy chains/robot applications
Cable sheath colour	Grey
Material cable sheath	TPE-U(PUR)
Type of mounting	Screw-clamped Insertable in the slot from above
Mounting position	optional
Product weight	9.5 g
Material housing	High-alloy stainless steel
Status indication	LED red, green
Ambient temperature with moving cable	-20 °C ... 70 °C
Degree of protection	IP65 IP68
LABS (PWIS) conformity	VDMA24364-B2-L
Suitability for the production of Li-ion batteries	Suitable for battery production according to the Festo internal definition of the degree of severity F1A with restrictions regarding the use of Cu/Zn/Ni
Cleanroom class	Element installed statically, no meaningful evaluation possible according to ISO 14644-1